



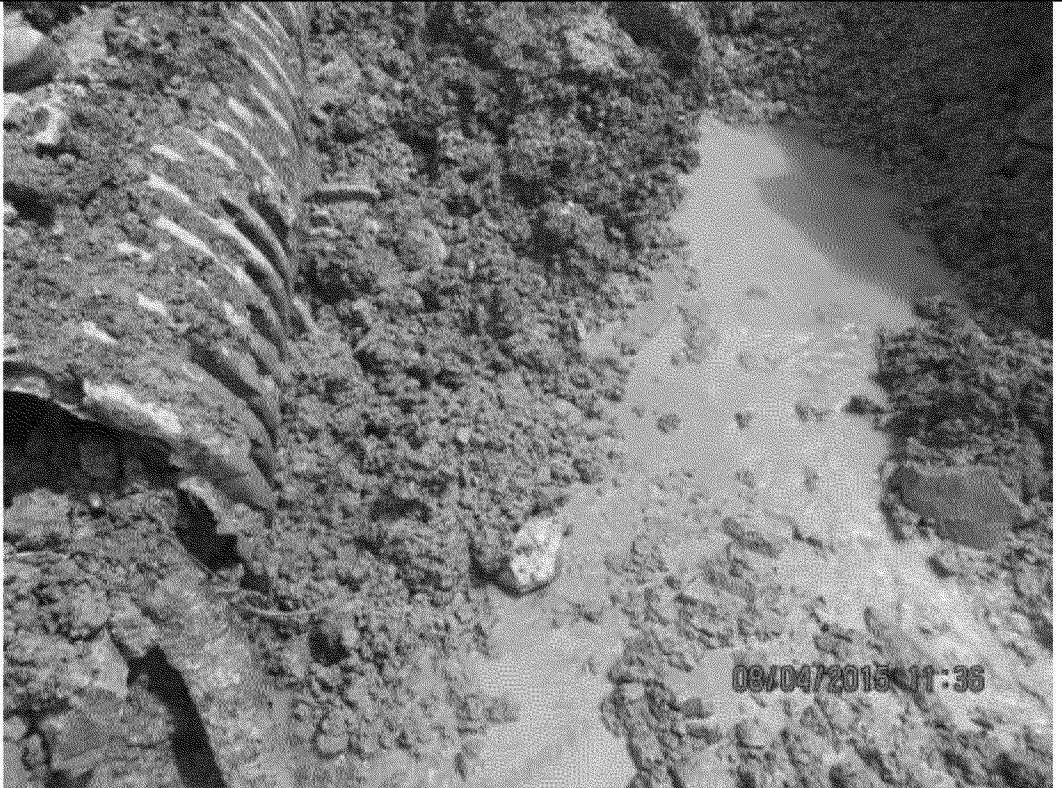

|  |   |                                    |
|--|---|------------------------------------|
| <b>Project Name:</b><br>Gold King Mine | <b>Site Location:</b><br>Silverton, San Juan County, Colorado | <b>Project No.</b><br>0001/1408-01 |
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|---|----------------------------|---|
| <b>Photo No.</b><br>1   | <b>Date:</b><br>08/04/2015 |  |
| <b>Direction Photo Taken:</b><br><br>North                          |                            |   |
| <b>Description:</b><br>Beginning investigation into collapsed adit. |                            |   |

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|---|----------------------------|--|
| <b>Photo No.</b><br>2   | <b>Date:</b><br>08/04/2015 |  |
| <b>Direction Photo Taken:</b><br><br>North  |                            |  |
| <b>Description:</b><br>Excavated next to DRMS-installed culvert, water muddy from soil disturbance. |                            |  |

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| <b>Photo No.</b><br>3   | <b>Date:</b><br>08/04/2015 |   |
| <b>Direction Photo Taken:</b><br><br>Down   |                            |  |
| <b>Description:</b><br>Seepage from soil next to piping.                                |                            |  |
| <b>Photo No.</b><br>4   | <b>Date:</b><br>08/04/2015 |  |
| <b>Direction Photo Taken:</b><br><br>Down   |                            |  |
| <b>Description:</b><br>Seepage next to the pipe is clear until entering disturbed soil. |                            |  |



**Project Name:**

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**Photo  
No.  
5**

**Date:**  
08/04/2015

**Direction Photo  
Taken:**

North

**Description:**

DRMS looking at adit  
excavation progress.



**Photo  
No.  
6**

**Date:**  
08/04/2015

**Direction Photo  
Taken:**



West

**Description:**

Water minimally murky  
from disturbed soil and  
water entering the  
North Fork from site.





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| <b>Photo No.</b><br>7  | <b>Date:</b><br>08/04/2015 |   |
| <b>Direction Photo Taken:</b><br><br>South/Down  |                            |  |
| <b>Description:</b><br>Hay bales installed as filter for sediment in North Fork.                               |                            |  |
| <b>Photo No.</b><br>8  | <b>Date:</b><br>08/04/2015 |  |
| <b>Direction Photo Taken:</b><br><br>Northwest   |                            |  |
| <b>Description:</b><br>Continuing excavation at the collapsed adit, no solid bedrock found for tunnel support. |                            |  |



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| <b>Photo No.</b><br><b>9</b>  | <b>Date:</b><br>08/04/2015 |   |
| <b>Direction Photo Taken:</b><br><br>Northeast                                |                            |  |
| <b>Description:</b><br>First signs of adit, support pillar with lagging.      |                            |  |
| <b>Photo No.</b><br><b>10</b>   | <b>Date:</b><br>08/04/2015 |  |
| <b>Direction Photo Taken:</b><br><br>East                                     |                            |  |
| <b>Description:</b><br>Water of the North Fork just upstream of Cement Creek. |                            |  |

**Project Name:**

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**Photo No.**  
**11**

**Date:**  
08/04/2015

**Direction Photo Taken:**

East

**Description:**

Water of the North Fork just upstream of Cement Creek.



**Photo No.**  
**12**

**Date:**  
08/04/2015

**Direction Photo Taken:**

North

**Description:**

Collapsed supports uncovered above anticipated adit, no sign of bedrock above the adit area.





**Project Name:**

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**Photo No.**  
**13**

**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

Adit conditions the morning of 8/5.



**Photo No.**  
**14**

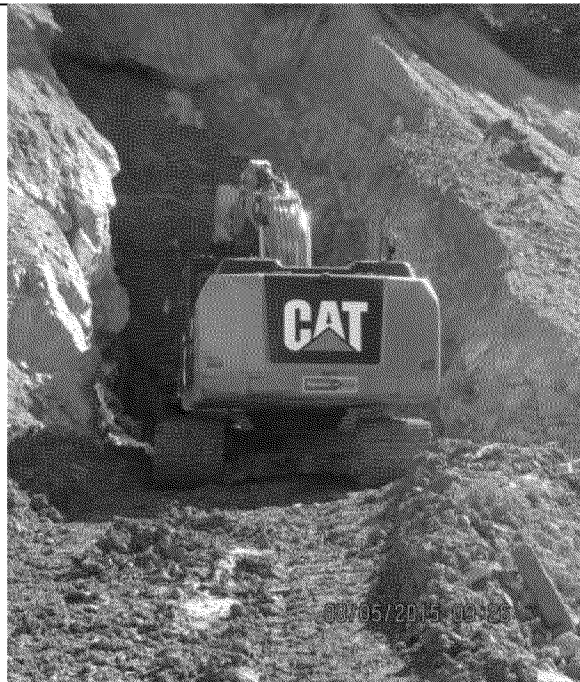
**Date:**  
08/05/2015

**Direction Photo Taken:**

Northeast

**Description:**

Excavating material above the collapsed adit.



**Project Name:**

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**Site Location:**

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**Photo No.**  
**15**

**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

Bedrock found above the anticipated adit.



**Photo No.**  
**16**

**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

Cleaning out excavated material, small leak.





**Project Name:**



Gold King Mine

**Site Location:**


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| <p><b>Photo No.</b><br/><b>17</b></p>                             | <p><b>Date:</b><br/>08/05/2015</p> |   |
| <p><b>Direction Photo Taken:</b></p> <p>North</p>                 |                                    |  |
| <p><b>Description:</b><br/>Small leak close up.</p>               |                                    |  |
| <p><b>Photo No.</b><br/><b>18</b></p>                             | <p><b>Date:</b><br/>08/05/2015</p> |  |
| <p><b>Direction Photo Taken:</b></p> <p>North</p>                 |                                    |  |
| <p><b>Description:</b><br/>Hole starting to give way to flow.</p> |                                    |  |



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| <b>Photo No.</b><br><b>19</b>                    | <b>Date:</b><br>08/05/2015 |  |
| <b>Direction Photo Taken:</b><br><br>Northeast   |                            |   |
| <b>Description:</b><br><br>Adit flow increasing. |                            |   |



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| <b>Photo No.</b><br><b>20</b>                                    | <b>Date:</b><br>08/05/2015 |  |
| <b>Direction Photo Taken:</b><br><br>Northeast                   |                            |  |
| <b>Description:</b><br><br>Water flooding out at increased rate. |                            |  |



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| <b>Photo No.</b><br><b>21</b>   | <b>Date:</b><br>08/05/2015 |   |
| <b>Direction Photo Taken:</b><br><br>West   |                            |  |
| <b>Description:</b><br>Water flowing along access road and across waste dump.                 |                            |  |
| <b>Photo No.</b><br><b>22</b>   | <b>Date:</b><br>08/05/2015 |  |
| <b>Direction Photo Taken:</b><br><br>Southeast  |                            |  |
| <b>Description:</b><br>Water flowing over the edge of the waste dump and collapsing the edge. |                            |  |

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| <b>Photo No.</b><br><b>23</b>   | <b>Date:</b><br>08/05/2015 |   |
| <b>Direction Photo Taken:</b><br><br>Southwest  |                            |  |
| <b>Description:</b><br>Exit route starting to collapse  |                            |  |
| <b>Photo No.</b><br><b>24</b>   | <b>Date:</b><br>08/05/2015 |  |
| <b>Direction Photo Taken:</b><br><br>Southeast/Down   |                            |  |
| <b>Description:</b><br>Edge of the tailings dump collapsed, suburban trapped and half submerged in center of photo. |                            |  |



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| <b>Photo No.</b><br><b>25</b>   | <b>Date:</b><br>08/05/2015 |   |
| <b>Direction Photo Taken:</b><br><br>Northeast  |                            |  |
| <b>Description:</b><br>Gold King adit exposed.  |                            |  |
| <b>Photo No.</b><br><b>26</b>   | <b>Date:</b><br>08/05/2015 |  |
| <b>Direction Photo Taken:</b><br><br>Southeast  |                            |  |
| <b>Description:</b><br>Water flow washing out the existing road. Note Suburban in left side of photo. |                            |  |

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**Photo No.**  
**27**

**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

Exposed adit, roughly 10 feet wide by 15 feet high.



**Photo No.**  
**28**

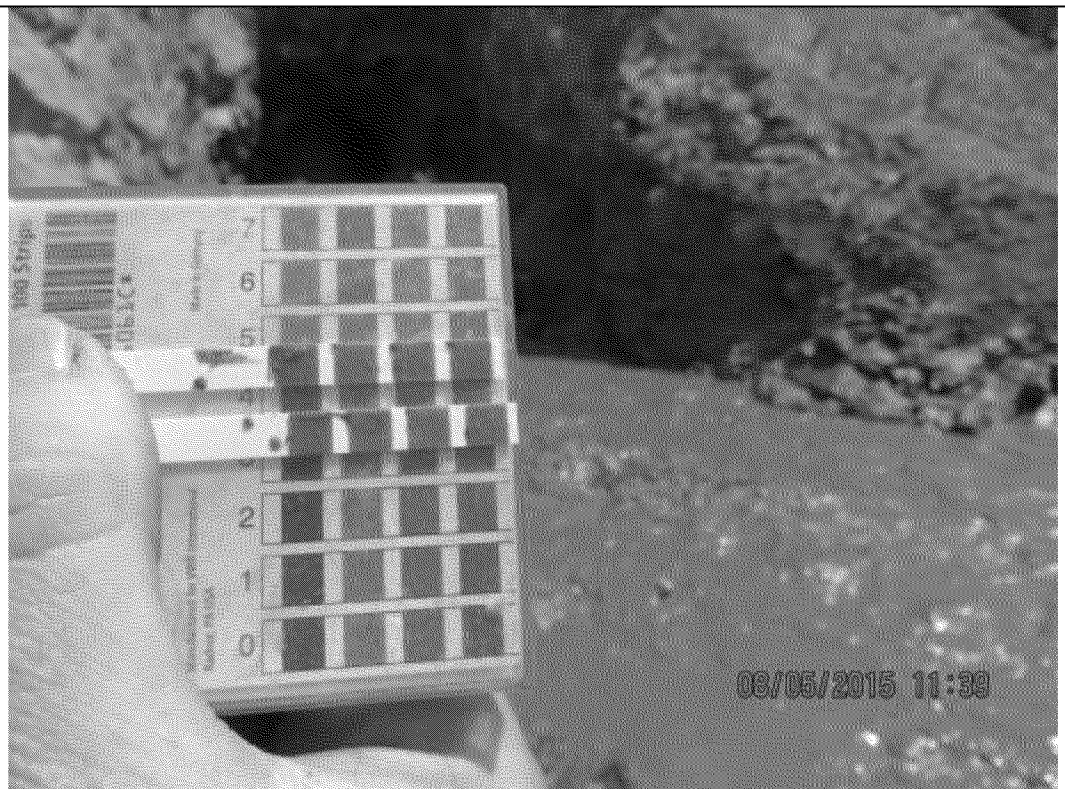
**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

pH of discharge water is approximately 4 to 4.5.





**Project Name:**

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**Photo No.**  
**29**

**Date:**  
08/05/2015

**Direction Photo Taken:**

Northeast

**Description:**

Excavator redirecting water into existing half-pipe channel.



**Photo No.**  
**30**

**Date:**  
08/05/2015

**Direction Photo Taken:**

Southeast/Down

**Description:**

Collapsed portion of waste dump and road wash out.



**Project Name:**

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**Site Location:**

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**Photo No.**  
**31**

**Date:**  
08/05/2015

**Direction Photo Taken:**

Northeast

**Description:**

Adit area after regrading.



**Photo No.**  
**32**

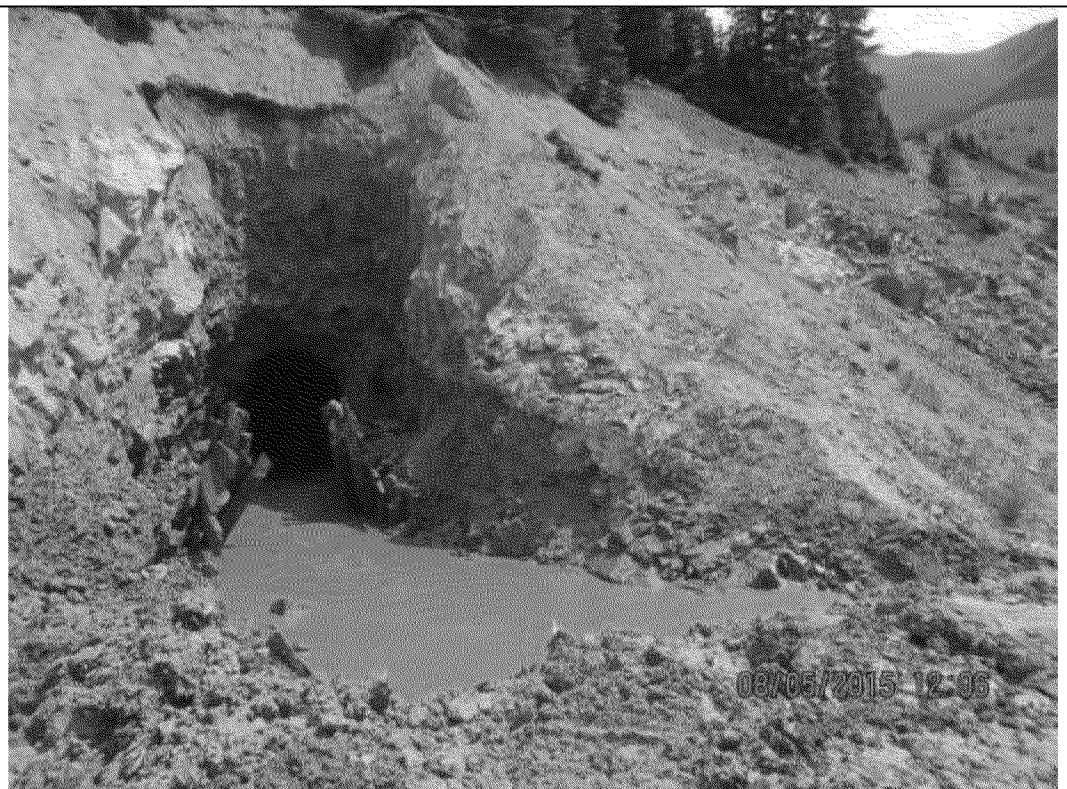
**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

Exposed adit and redirected flow, flow is beginning to subside.





**Project Name:**

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**Photo No.**  
**33**

**Date:**  
08/05/2015

**Direction Photo Taken:**

East

**Description:**

Redirected flow into existing half culvert channel.



**Photo No.**  
**34**

**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

Closeup of adit.



**Project Name:**

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**Photo No.**  
**35**

**Date:**  
08/05/2015

**Direction Photo Taken:**

West

**Description:**

Excavator beginning work to secure safe exit route for equipment, vehicles, and personnel.



**Photo No.**  
**36**

**Date:**  
08/05/2015

**Direction Photo Taken:**

East

**Description:**

Existing flow channel at maximum capacity.





**Project Name:**

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**Photo No.**  
**37**

**Date:**  
08/05/2015

**Direction Photo Taken:**

Southwest/Down

**Description:**

Excavator progress on fixing access road to create a safe exit route.



**Photo No.**  
**38**

**Date:**  
08/05/2015

**Direction Photo Taken:**

East

**Description:**

Existing culvert flows subsiding minimally.



**Project Name:**

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**Photo No.**  
**39**

**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

No changes visible in adit structure or supports. Sloughing of materials inside the mine can be heard.



**Photo No.**  
**40**

**Date:**  
08/05/2015

**Direction Photo Taken:**

South/Down


**Description:**

Excavator progresses to washed out North Fork crossing.








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| <b>Photo No.</b><br>41  | <b>Date:</b><br>08/05/2015 |  |
| <b>Direction Photo Taken:</b><br><br>Southwest/Down   |                            |   |
| <b>Description:</b><br>Noted visitor to the site, unknown person, walked up to excavator at North Fork crossing and then back to vehicle. |                            |   |

|   |                            |  |
|---|----------------------------|--|
| <b>Photo No.</b><br>42                              | <b>Date:</b><br>08/05/2015 |  |
| <b>Direction Photo Taken:</b><br><br>Southwest/Down |                            |  |
| <b>Description:</b><br>Visitor leaving.             |                            |  |

|  |   |                                    |
|--|---|------------------------------------|
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| <b>Photo No.</b><br><b>43</b>   | <b>Date:</b><br>08/05/2015 |   |
| <b>Direction Photo Taken:</b><br><br>South/Down   |                            |  |
| <b>Description:</b><br>Excavator continues to fix access road. Continued high flow is slowing progress. |                            |  |
| <b>Photo No.</b><br><b>44</b>   | <b>Date:</b><br>08/05/2015 |  |
| <b>Direction Photo Taken:</b><br><br>East   |                            |  |
| <b>Description:</b><br>Half culvert flow continues to subside.  |                            |  |



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**Photo  
No.  
45**

**Date:**  
08/05/2015

**Direction Photo  
Taken:**

North

**Description:**

Water levels lowering  
at adit entrance, no  
visible changes to  
structure.



**Photo  
No.  
46**

**Date:**  
08/05/2015

**Direction Photo  
Taken:**


West


**Description:**

Flight for life Helicopter  
coming up the valley to  
pick up a person who  
crashed a vehicle on  
Corkscrew Pass, not  
related to this event.



|  |   |                                    |
|--|---|------------------------------------|
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|---|----------------------------|---|
| <b>Photo No.</b><br><b>47</b>                       | <b>Date:</b><br>08/05/2015 |  |
| <b>Direction Photo Taken:</b><br><br>Southwest      |                            |   |
| <b>Description:</b><br>Close up of Flight for Life. |                            |   |

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|--|----------------------------|--|
| <b>Photo No.</b><br><b>48</b>  | <b>Date:</b><br>08/05/2015 |  |
| <b>Direction Photo Taken:</b><br><br>Northeast   |                            |  |
| <b>Description:</b><br>Flow path from adit, water flow appears to have stabilized around 1400. |                            |  |



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**Photo No.**  
**49**

**Date:**  
08/05/2015

**Direction Photo Taken:**

North

**Description:**

pH measured at approximately 4.5.



**Photo No.**  
**50**

**Date:**  
08/05/2015

**Direction Photo Taken:**


Southwest/Down


**Description:**

DRMS arrives back on site, had visited the site around 0930 to check on progress of investigation, left approximately 1030, prior to blowout.




|  |   |                                    |
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|--|----------------------------|--|
| <b>Photo No.</b><br><b>51</b>  | <b>Date:</b><br>08/05/2015 |  |
| <b>Direction Photo Taken:</b><br><br>North   |                            |  |
| <b>Description:</b><br>Looking up from the toe of the Gold King waste dump directly south of the adit. |                            |  |

|  |                            |  |
|--|----------------------------|--|
| <b>Photo No.</b><br><b>52</b>  | <b>Date:</b><br>08/05/2015 |  |
| <b>Direction Photo Taken:</b><br><br>Northeast                             |                            |  |
| <b>Description:</b><br>Gold King Mine tailings dump after water discharge. |                            |  |



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| <b>Photo No.</b><br><b>53</b>  | <b>Date:</b><br>08/05/2015 |  |
| <b>Direction Photo Taken:</b><br><br>East  |                            |  |
| <b>Description:</b><br><br>Looking east across Cement Creek from County Road 10 to excavator fixing County Road 52 at North Fork crossing just south of Red and Bonita Mine. |                            |  |

|  |                            |  |
|--|----------------------------|--|
| <b>Photo No.</b><br><b>54</b>                                  | <b>Date:</b><br>08/05/2015 |  |
| <b>Direction Photo Taken:</b><br><br>East                      |                            |  |
| <b>Description:</b><br><br>Cement Creek crossing at Gladstone. |                            |  |



## PHOTOGRAPH LOG

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